CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 88-087

SITE CLEANUP REQUIREMENTS FOR:

Aratex Services, Inc. Mr. Hanley Murray
920 Chesnut Street
San Jose, Santa Clara County

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. Aratex Services, Inc. (Aratex) is the former owner of the property located at 920 Chesnut Street, San Jose (site). Aratex operated an industrial laundry business at the site from 1970 to 1982. Mr. Hanley Murray (Murray) purchased the property in 1983 and currently operates the site as a storage area for vehicle parts and abandoned and disabled vehicles impounded in connection with his towing business and leases a portion of the premises for use as an automobile shop. Aratex Services, Inc. and Mr. Hanley Murray are hereinafter referred to as dischargers.

2. Ten underground tanks were present at the site. From 1970 to 1980, gasoline was stored by Aratex in one 10,000 gallon tank for use in merchandise delivery vehicles. From about 1970 to October, 1982, seven 1,500 gallon and two 10,000 gallon storage tanks served as storage for the stoddard solvent and treatment oil used by Aratex for cleaning industrial gloves, dust and sweeping cloths and floor mops for rental and re-use. Three years after purchasing the subject property in 1983, Murray had all ten underground tanks removed.

3. Soil samples collected from beneath the gasoline tank after excavation contained up to 4400 milligrams per kilogram (mg/kg) gasoline at a depth of 23 feet. Soil samples collected from borings in the former stoddard solvent tank farm area contained up to 18,200 mg/kg stoddard solvent at a depth of 15 feet.

4. Groundwater investigations were initiated to define the horizontal and vertical extent of the groundwater pollution beneath the site. Ten shallow aquifer monitoring wells have been installed at the site. Groundwater samples collected beneath the former gasoline tank area from monitoring well No. 1 (MW-1) contained up to 990 parts per million (ppm) gasoline/hydrocarbon mix. Groundwater samples collected beneath the former stoddard solvent tank farm area from MW-3

contained up to 1.1 ppm gasoline/hydrocarbon mix. Floating stoddard solvent was recently neasured in monitoring well LF-9 at thicknessses of up to 6.8 feet. A fingerprint characterization by capillary gas chromatography was completed on the floating product. The gas chromatographic trace was indicative of a Stoddard-type solvent, along with components that most closely resemble light hydraulic fluids or heavy mineral spirits. A gas chromatograph was also completed on a soil sample from boring SB5 and from the appearance of the two chromatograms, it would appear that the substance contained in the soil and LF-9 are the same product.

5. The geology beneath the site consists of nearly flat, discontinuous layers or lenses of alluvial or shallow marine sediments. In general, the upper 15 to 20 feet consist of sands, transitioning into clay and silty clay sediments down to 28 feet. From depths of 28 to 39 feet, the soils change in character to sands, with pebbles and gravel. The depth to first groundwater is approximately 35 to 37 feet. The regional groundwater flow direction is believed to be towards the northwest. Field verification of groundwater levels indicates a groundwater divide oriented on a north-west-southeast trend through the center of the site. Horizontal groundwater flow on the southwest side of the divide is to the west-southwest while horizontal groundwater flow on the northeast side of the divide is to the east-northeast. It appears that the groundwater divide is created by a groundwater/product extraction system operating at a gas station at the corner of Coleman and W. Hedding Streets approximately 400 feet from the 920 Chesnut Street site.

6. Commercical properties to the south of 920 Chesnut Street include a dry cleaner and a paint and rust stripper. Information regarding the chemical use, storage and handling history for these two sites has been requested in writing.

7. Aratex is named as a discharger because of the releases of chemicals that have resulted from its use of the underground storage tanks at the site. Aratex has been responsible for the investigation conducted to date at the site and is the party most likely to comply with this Order. Murray is named as a discharger because he is the current owner of the property where the releases have occurred.

8. As the current owner of the property, Murray controls access to the property. The continued progress of the site investigation and remediation would be significantly impeded without Murray's involvement.

9. None of the findings, prohibitions, specifications, provisions, or any other part of this Order are, or should be construed to be, evidence of or determinations of either ultimate liability for purposes other than adoption of this Order or comparative fault of the dischargers.

10. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on December 17, 1986. The Basin Plan contains water quality objectives and beneficial uses for South San Francisco Bay and contiguous surface and groundwaters.

11. The existing and potential beneficial uses of the groundwater underlying and adjacent to the facility include:

    a. Industrial process water supply
    b. Industrial service water supply
    c. Municipal and Domestic water supply
    d. Agricultural water supply

12. The dischargers have caused or permitted, and threaten to cause or permit waste to be discharged or deposited where it is or probably will be discharged to waters of the State and creates or threatens to create a condition of pollution or nuisance.

13. This action is an order to enforce the laws and regulations administered by the Board. This action is categorically exempt from the provisions of the CEQA pursuant to Section 15321 of the Resources Agency Guidelines.

14. Onsite and possible offsite interim containment and cleanup measures need to be implemented to alleviate the threat to the environment posed by the continued migration of pollutants and to provide a substantive technical basis for designing and evaluating the effectiveness of final cleanup alternatives.

15. The Board has notified the dischargers and interested agencies and persons of its intent under California Water Code Section 13304 to prescribe Site Cleanup Requirements for the discharge and has provided them with the opportunity for a public hearing and an opportunity to submit their written views and recommendations.

16. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to Section 13304 of the California Water Code, that the discharger shall cleanup and abate the effects described in the above findings as follows:

A. PROHIBITIONS

1. The discharge of wastes or hazardous materials in a manner which will degrade water quality or adversely affect the beneficial uses of the waters of the State is prohibited.

2. Further significant migration of pollutants through subsurface transport to waters of the State is prohibited.

3. Activities associated with the subsurface investigation and cleanup which will cause significant adverse migration of pollutants are prohibited.

B. SPECIFICATIONS

1. The storage, handling, treatment or disposal of soil or groundwater containing pollutants shall not create a nuisance as defined in Section 13050(m) of the California Water Code.

2. The dischargers shall conduct monitoring activities as needed to define the current local hydrogeologic conditions, and the lateral and vertical extent of soil and groundwater pollution. Should monitoring results show evidence of pollutant migration, additional pollutant characterization of pollutant extent may be required.

C. PROVISIONS

1. The dischargers shall submit to the Board acceptable monitoring program reports containing results of work performed according to the attached self-monitoring program prescribed by the Board's Executive Officer.

2. Aratex shall comply with Prohibitions A.1., A.2., and A.3., Specifications B.1. and B.2. and Provision C.1 above, in accordance with the following time schedule and tasks. Within 60 days of the Executive Officer's determination and actual notice to Murray that Aratex has failed to comply with Prohibitions A.1, A.2 and A.3, Specifications B.1 and B.2 and Provision C.1 of this order, Murray, as landowner, shall comply with these paragraphs and with the tasks below.

COMPLETION DATE/TASK

a. 1) COMPLETION DATE: June 30, 1988

TASK: OFFSITE SOIL POLLUTION CHARACTERIZATION: Submit a technical report acceptable to the Executive Officer containing a proposal to define the horizontal and vertical extent of the offsite soil pollution.

2) COMPLETION DATE: July 29, 1988

TASK: ONSITE STODDARD SOLVENT TANK FARM AREA SOIL INTERIM REMEDIAL ACTIONS: Submit a technical report acceptable to the Executive Officer containing an evaluation of soil interim remedial alternatives for the stoddard tank farm area and a recommended plan for soil interim remediation.

3) COMPLETION DATE: September 30, 1988

TASK: COMPLETION OF ONSITE GASOLINE TANK AREA SOIL INTERIM REMEDIAL ACTIONS: Submit a technical report acceptable to the Executive Officer documenting completion of the necessary tasks for soil interim remedial actions in the gasoline tank area identified in the technical report, Phase III Soil and Groundwater Investigation and Recommended Soil Interim Remedial Actions.

4) COMPLETION DATE: October 31, 1988

TASK: COMPLETION OF OFFSITE SOIL POLLUTION CHARACTERIZATION AND PROPOSAL FOR OFFSITE SOIL INTERIM REMEDIAL ACTION: Submit a technical report acceptable to the Executive Officer documenting the completion of the necessary tasks identified in task 2.a.1) and containing an evaluation of offsite soil interim remedial alternatives and a recommended plan for offsite soil interim remediation.

5) COMPLETION DATE: November 30, 1988

TASK: COMPLETION OF ONSITE STODDARD SOLVENT TANK FARM AREA SOIL INTERIM REMEDIAL ACTION: Submit a technical report acceptable to the Executive Officer documenting completion of the necessary tasks identified in task 2.a.2).

6) COMPLETION DATE: MARCH 31, 1989

TASK: COMPLETION OF OFFSITE SOIL INTERIM REMEDIAL ACTION: Submit a technical report acceptable to the Executive Officer documenting completion of the necessary tasks identified in task 2.a.4).

b. 1) COMPLETION DATE: July 31, 1988

TASK: GROUNDWATER POLLUTION CHARACTERIZATION: Submit a technical report acceptable to the Executive Officer containing a proposal to define the vertical extent of the onsite groundwater pollution and the horizontal and vertical extent of the offsite groundwater pollution.

2) COMPLETION DATE: October 31, 1988

TASK: COMPLETION OF GROUNDWATER CHARACTERIZATION STATUS REPORT: Submit a technical report acceptable to the Executive Officer containing a status report on the groundwater characterization and a proposal to further define the horizontal and vertical extent of the offsite groundwater pollution.

3) COMPLETION DATE: March 15, 1989

TASK: COMPLETION OF GROUNDWATER CHARACTERIZATION: Submit a technical report acceptable to the Executive Officer documenting completion of the necessary tasks identified in task 2.b.2).

c. 1) COMPLETION DATE: June 15, 1988

TASK: ONSITE GASOLINE TANK AREA GROUNDWATER INTERIM REMEDIAL ACTIONS: Submit a technical report acceptable to the Executive Officer which contains an evaluation of interim remedial alternatives for the groundwater affected by gasoline, a recommended plan for interim remediation onsite, and an implementation time schedule. The report shall evaluate alternative hydraulic control systems to contain and to initiate cleanup of polluted groundwater; and include a completed NPDES application to discharge to surface waters, if such discharge is an element of the plan.

2) COMPLETION DATE: July 29, 1988

TASK: ONSITE STODDARD SOLVENT TANK FARM AREA GROUNDWATER INTERIM REMEDIAL ACTIONS: Submit a technical report acceptable to the Executive Officer which contains an evaluation of interim remedial alternatives for the groundwater affected by stoddard solvent, a recommended plan for interim remediation onsite, and an implementation time schedule. This report shall evaluate alternative hydraulic control systems to contain and to initiate cleanup of polluted groundwater; and include a completed NPDES application to discharge to surface waters, if such discharge is an element of the plan. This report shall also include the results of the installation and sampling of the four perched zone monitoring wells.

3) COMPLETION DATE: April 15, 1989

TASK: COMPLETION OF ONSITE GROUNDWATER INTERIM REMEDIAL ACTIONS: Submit a technical report acceptable to the Executive Officer documenting completion of the necessary tasks identified in the technical report submitted for Task 2.c.1) and 2.c.2).

d. 1) COMPLETION DATE: March 15, 1989

TASK: OFFSITE INTERIM REMEDIAL ACTIONS: Submit a technical report acceptable to the Executive Officer which contains an evaluation of offsite interim remedial alternatives, a recommended plan for offsite interim remediation, and an implementation time schedule. This report shall evaluate alternative hydraulic control systems to contain and to initiate cleanup of polluted groundwater; and include a completed NPDES application to discharge to surface waters, if such discharge is an element of the plan.

2) COMPLETION DATE: January 31, 1990

TASK: COMPLETION OF OFFSITE INTERIM REMEDIAL ACTIONS: Submit a technical report acceptable to the Executive Officer documenting completion of the necessary tasks identified in the technical report submitted for Task 3.d.1).

e. 1) COMPLETION DATE: September 15, 1989

TASK: a) EVALUATE ONSITE INTERIM HYDRAULIC CONTAINMENT AND SOIL REMEDIAL MEASURES: Submit a technical report acceptable to the Executive Officer which evaluates the effectiveness of the interim hydraulic containment system. Such an evaluation shall include, but need not be limited to, an estimation of the flow capture zone of the extraction wells, establishment of the cones of depression by field measurements, and presentation of chemical monitoring data, if extraction wells are proposed. This report shall also evaluate and document the removal and/or cleanup of polluted soils.

b) MODIFICATIONS TO ONSITE INTERIM REMEDIAL ACTIONS: Specific modifications to the system and an implementation time schedule shall be proposed in the event that the hydraulic control system is demonstrated not to be effective in containing and removing the pollutants and/or in the event that the soil remediation system is demonstrated not to be effective.

2) COMPLETION DATE: January 15, 1990

TASK: COMPLETION OF MODIFICATIONS TO ONSITE INTERIM ACTIONS: Submit a technical report acceptable to the Executive Officer documenting completion of the necessary tasks identified in the technical report submitted for Task 2.e.1)b).

f. 1) COMPLETION DATE: March 15, 1991

TASK: PROPOSED FINAL CLEANUP OBJECTIVES AND ACTIONS: Submit a technical report acceptable to the Executive Officer containing the results of the remedial investigation; an evaluation of the installed interim remedial measures; a feasibility study evaluating alternative final remedial measures; the recommended measures necessary to achieve final cleanup objectives; and the tasks and time schedule necessary to implement the recommended final remedial measures.

4. The submittal of technical reports evaluating immediate, interim and final remedial measures will include a projection of the cost, effectiveness, benefits, and impact on public health, welfare, and environment of each alternative measure. The remedial investigation and feasibility study shall consider the guidance provided by Subpart F of the National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR Part 300); Section 25356.1 (c) of the California Health and Safety Code; CERCLA guidance documents with reference to Remedial Investigation, Feasibility Studies, and Removal Actions; the State Water Resources Control Board's Resolution No. 68-16, "Statement of Policy with Respect to Maintaining High Quality of Waters in California"; and the Regional Board staff's document entitled "Information to be Included in Proposals and Resultant Sampling Reports for Groundwater and Associated Soil Investigations."

5. If the dischargers are delayed, interrupted or prevented from meeting one or more of the completion dates specified in this Order, the dischargers shall promptly notify the Executive Officer and the Board may consider revision to this Order.

6. Technical reports on compliance with the Prohibitions, Specifications, and Provisions of this Order shall be submitted monthly to the Board commencing on June 30 and covering the previous month. On a monthly basis thereafter, these reports shall consist of a letter report that, (1) summarizes work completed since submittal of the previous report, and work projected to be completed by the time of the next report, (2) identifies any obstacles which may threaten compliance with the schedule of this Order and what actions are being taken to overcome these obstacles, and (3) includes, in the event of non-compliance with Provision C.2. or any other Specification or Provision of this Order, written notification which clarifies the reasons for non-compliance and which proposes specific measures and a schedule to achieve compliance. This written notification shall identify work not completed that was projected for completion, and shall identify the impact of non-compliance on achieving compliance with the remaining requirements of this Order.

   On a quarterly basis, commencing with the June monthly report due July 31, the monthly reports shall include, but need not be limited to, updated water table and piezometric surface maps for all affected water bearing zones, cross-sectional geological maps describing the hydrogeological setting of the site, appropriately scaled and detailed base maps showing the location of all monitoring wells and extraction wells and identifying adjacent facilities and structures. The report shall also include the quantities of specific pollutants being removed by any and all vacuum extraction systems and/or groundwater extraction systems utilized in remediation.

7. All hydrogeological plans, specifications, reports, and documents shall be signed by or stamped with the seal of a registered geologist, engineering geologist or professional engineer.

8. All samples shall be analyzed by State certified laboratories or laboratories accepted by the Board using approved EPA methods for the type of analysis to be performed. All laboratories shall maintain quality assurance/quality control records for Board review.

9. The dischargers shall maintain in good working order, and operate, as efficiently as possible, any facility or control system installed to achieve compliance with the requirements of this Order.

10. Copies of all correspondence, reports, and documents pertaining to compliance with the Prohibitions, Specifications, and Provisions of this Order, shall be provided to the following agencies:

    a. Santa Clara Valley Water District
    b. Santa Clara County Health Department
    c. City of San Jose
    d. State Department of Health Services/TSCD

    The Executive Officer may additionally require copies of correspondence, reports and documents pertaining to compliance with the Prohibitions, Specifications, and Provisions of this Order to be provided to the U.S. Environmental Protection Agency, Region IX, and to a local repository for public use.

11. Within 60 days of the Executive Officer's determination and actual notice to Murray that Aratex has failed to comply with any portion of Provisions 1 through 10 of this Order, Murray, as landowner, shall comply with these Provisions.

12. The dischargers shall permit the Board or its authorized representative, in accordance with Section 13267(c) of the California Water Code:

    a. Entry upon premises in which any pollution sources exist, or may potentially exist, or in which any required records are kept, which are relevant to this Order.

    b. Access to copy any records required to be kept under the terms and conditions of this Order.

    c. Inspection of any monitoring equipment or methodology implemented in response to this Order.

    d. Sampling of any groundwater or soil which is accessible, or may become accessible, as part of any investigation or remedial action program undertaken by the discharger.

13. The dischargers shall file a report on any changes in site occupancy and ownership associated with the facility described in this Order.

14. If any hazardous substance is discharged in or on any waters of the state, or discharged and deposited where it is, or probably will be discharged in or on any waters of the state, the discharger shall report such discharge to this Regional Board, at (415) 464-1255 on

weekdays during office hours from 8 a.m. to 5 p.m., and to the Office of Emergency Services at (800) 852-7550 during non-business hours. A written report shall be filed with the Regional Board within five (5) working days and shall contain information relative to: the nature of waste or pollutant, quantity involved, duration of incident, cause of spill, Spill Prevention, Control, and Countermeasure Plan (SPCC) in effect, if any, estimated size of affected area, nature of effect, corrective measures that have been taken or planned, and a schedule of these activities, and persons/-agencies notified.

15. Aratex and Murray shall serve each other and each party's counsel, copies of all correspondance related to this Order.

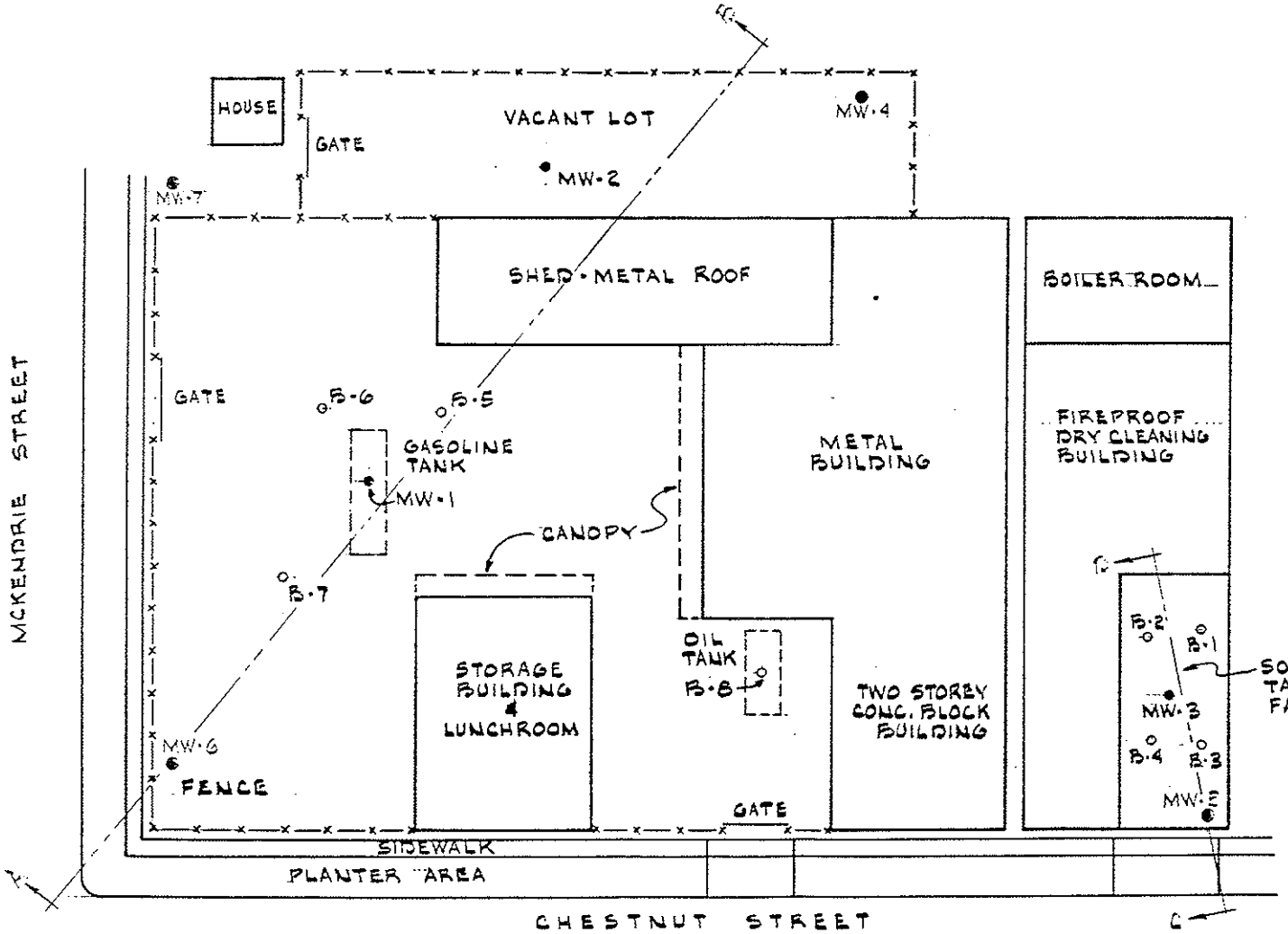
16. The Board will review this Order periodically and may revise the requirements when necessary.

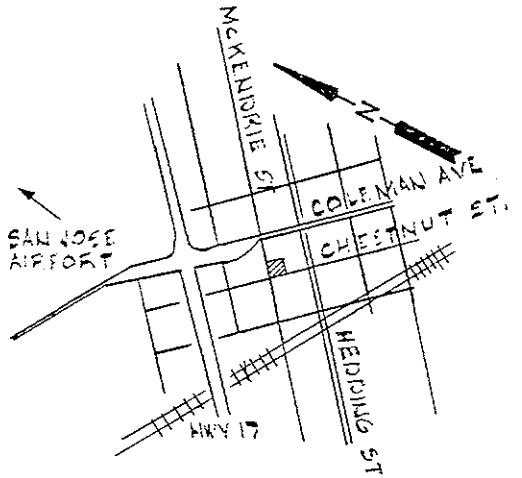
17. If credible evidence is developed in the future that proves Murray used the underground gasoline tank or other persons or entities offsite are responsible for a portion of the observed contamination, the Board retains jurisdiction to modify the designation of liability set forth in this Order.

I, Roger B. James, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on May 18, 1988.

Roger B. James
Executive Officer

Attachments: Self-Monitoring Program
Site Map





VICINITY PLAN

NOTE:
MW-4 THROUGH MW-7, PHASE II WELLS, WERE DRILLED AND INSTALLED FROM SEPTEMBER 22-29, 1987. WELLS MW-1, 2, 3, AND BORINGS B-1 THROUGH B-8 WERE PART OF PHASE I

SEE PLATE 5 FOR PROFILE LOCATION

SCALE IN FEET
0 10 20 30

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC

ARATEX SERVICES, INC.
CHESTNUT ST., SAN JOSE, CA
SITE PLAN

Project No 38619.01 Date 11-3-87

Plate 1

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

Aratex Services, Inc.

Mr. Hanley Murray
920 Chesnut Street
San Jose, Santa Clara County

Tentative Order No. 88 - 087

CONSISTS OF

PART A, Dec. 1986
As Modified by SBTD, 1/23/87
With Appendices A-E

and

PART B, adopted May 18, 1988

December 1986
Mod. SBTD 1/23/87

SELF-MONITORING PROGRAM
PART A

A. GENERAL

Basis

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383 and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16 and the Environmental Protection Agency's Discharge Monitoring Report (Form 3320-1).

Purpose

The principal purposes of a monitoring program by a waste discharger, also referred to as self-monitoring program, are: (1) to document compliance with waste discharge requirements and prohibitions established by this Regional Board, (2) to facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of effluent or other limitations, discharge prohibitions, national standards of performance, pretreatment and toxicity standards, and other standards, and (4) to prepare water and wastewater quality inventories.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the 40 CFR 136 or other methods approved and specified by the Executive Officer of this Regional Board. (See Appendix E, attached)

Water and waste analyses shall be performed by a laboratory approved for these analyses by the State Department of Health Services (DOHS) or a laboratory waived by the Executive Officer from obtaining a certification for these analyses by the DOHS. The director of the laboratory whose name appears on the certification or his/her laboratory supervisor who is directly responsible for analytical work performed shall supervise all analytical work including appropriate quality assurance/quality control procedures in his or her laboratory and shall sign all reports of such work submitted to the Regional Board.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. A grab sample is defined as an individual sample collected in a short period of time not exceeding 15 minutes. Grab samples shall be collected during normal peak loading conditions for the parameter of interest, which may or may not be during hydraulic peaks. It is used primarily in determining compliance with daily maximum limits and instantaneous maximum limits. Grab samples represent only the condition that exists at the time the wastewater is collected.

2. A composite sample is defined as a sample composed of individual grab samples mixed in proportions varying not more than plus or minus five percent from the instantaneous rate (or highest concentration) of waste flow corresponding to each grab sample collected at regular intervals not greater than one hour, or collected by the use of continuous automatic sampling devices capable of attaining the proportional accuracy stipulated above throughout the period of discharge for 8 consecutive or of 24 consecutive hours, whichever is specified in Table 1 of Part B.

3. A flow sample is defined as the accurate measurement of the average daily flow volume using a properly calibrated and maintained flow measuring device.

4. Duly authorized representative is one whose:

   a. Authorization is made in writing by a principal executive officer or ranking elected official;

   b. Authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as general partner in a partnership, sole proprietor in a sole proprietorship, the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibililty for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)

5. Average values for daily and monthly values are obtained by taking the sum of all daily values divided by the number of all daily values measured during the specified period.

6. Daily Maximum limit is the total discharge in a calendar day for pollutants measured by mass or the average measurement obtained for other pollutants.

7. Instantaneous maximum is defined as the highest measurement obtained for the calendar day.

8. Median of an ordered set of values is that value below and above which there is an equal number of values, or which is the arithmetic mean of the two middle levels, if there is no one middle value

9. A 6-month median means a moving median of daily values for any 180 day period in which daily values represent flow-weighted average concentrations within a daily or 24-hour period. For intermittent discharges, the daily value shall be considered to equal zero for days on which no discharge occurred.

D. SPECIFICATIONS FOR SAMPLING AND ANALYSES

The discharger is required to perform sampling and analyses according to the schedule in Part B in accordance with the following conditions:

1. Influent

   a. Samples of influent shall be collected on varying days selected at random and shall not include any plant recirculation or other sidestream wastes. Deviation from this must be approved by the Executive Officer.

2. Effluent

   a. Samples of effluent shall be collected on days coincident with influent composite sampling unless otherwise stipulated. At least one sampling event/day shall be taken during major unit operation shutdown or startup. The Board or Executive Officer may approve an alternative sampling plan if it is demonstrated to the Board's satisfaction that expected operating conditions for the facility warrant a deviation from the standard sampling plan.

   b. Grab samples of effluent shall be collected during periods of maximum peak flows and shall coincide with effluent sample days.

   c. Fish bioassay samples shall be collected on days coincident with effluent sampling.

      1) Bioassay sample should be collected after chlorination, if chlorination is part of the treatment process. Bioassay test should be performed on dechlorinated samples. Dechlorination may be performed at the laboratory before testing.

      2) Total ammonia nitrogen shall be analyzed and un-ionized ammonia calculated whenever fish bioassay test results fail to meet the specified percent survival.

   d. If two consecutive samples of a constituent monitored on a weekly or monthly basis in a 30 day period exceed the effluent limit for any parameter, (or if the required sampling frequency is once per month and the monthly sample exceeds the limit), the sampling frequency shall be increased to daily until the additional sampling shows that the most recent three (3) days are in compliance.

e. If any instantaneous maximum limit is exceeded, the discharge shall be terminated until the cause of violation is found and corrected.

f. If the final or intermediate results of any single bioassay test indicate a threatened violation (i.e. the percentage of surviving test organisms is less than the required survival percentage), a new test will begin and the discharger shall investigate the cause of the mortalities and report the finding in the next self-monitoring report.

g. Chlorine residual analyzers shall be calibrated against grab samples as frequently as necessary to maintain accurate control and reliable operation. If an effluent violation is detected, grab samples shall be collected at least every 30 minutes until compliance is achieved.

h. When any type of bypass occurs, grab samples shall be collected on a daily basis for all constituents at all affected discharge points which have effluent limits for the duration of the bypass.

3. Receiving Waters

a. Receiving water sampling shall be conducted on days coincident with sampling of effluent.

b. Receiving water samples shall be collected at each station on each sampling day during the period within 1 hour following low slack water. Where sampling at lower slack water period is not practical, sampling shall be performed during higher slack water period. Samples shall be collected within the discharge plume and downcurrent of the discharge point so as to be representative, unless otherwise stipulated.

c. Samples shall be collected within one foot below the surface of the receiving water body, unless otherwise stipulated.

E. Standard Observations

1. Receiving Water

a. Floating and suspended materials of waste origin (to include oil, grease, algae, and other macroscopic particulate matter): presence or absence, source, and size of affected area.

b. Discoloration and turbidity: description of color, source, and size of affected area.

c. Odor: presence or absence, characterization, source, distance of travel, and wind direction.

d. Evidence of beneficial water use: presence of water-associated waterfowl or wildlife, fishermen, and other recreational activities in the vicinity of the sampling stations.

e. Hydrographic condition:

1) Time and height of corrected high and low tides (corrected to nearest NOAA location for the sampling date and time of sample and collection).

2) Depth of water columns and sampling depths.

f. Weather condition:

1) Air temperatures.

2) Wind - direction and estimated velocity.

3) Precipitation - total precipitation during the previous five days and on the day of observation.

2. Wastewater Effluent

a. Floating and suspended material of waste origin (to include oil, grease, algae, and other macroscopic particulate matter): presence or absence.

b. Odor: presence or absence, characterization, source, distance of travel.

3. Beach and Shoreline

a. Material of waste origin: presence or absence, description of material, estimated size of affected area, and source.

b. Beneficial use: estimated number of people sunbathing, swimming, waterskiing, surfing, etc.

4. Land Retention or Disposal Area

This applies both to liquid and solid wastes confined or unconfined.

a. For each impoundment determine amount of the freeboard at lowest point of dikes confining liquid wastes.

b. Evidence of leaching liquid from area of confinement and estimated size of affected area. (Show affected area on a sketch and volume of flow (gpm, etc.))

c. Odor: presence or absence, characterization, source, and distance of travel.

d. Estimated number of waterfowl and other water-associated birds in the disposal area and vicinity.

5. Periphery of Waste Treatment and/or Disposal Facilities

a. Odor: presence or absence, characterization, source, and distance of travel.

b. Weather condition: wind direction and estimated velocity.

F. RECORDS TO BE MAINTAINED

1. Written reports, strip charts, calibration and maintenance records, and other records shall be maintained by the discharger and accessible (at the waste treatment plant), and retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Regional Board or Regional Administrator of the U.S. Environmental Protection Agency, Region IX. Such records shall show the following for each sample:

a. Identity of sampling and observation stations by number.

b. Date and time of sampling and/or observations.

c. Method of sampling (See Section C - Definition of Terms)

d. Type of fish bioassay test (96 hour static or flow-through bioassay)

e. Date and time that analyses are started and completed, and name of personnel performing the analyses.

f. Complete procedure used, including method of preserving sample and identity and volumes of reagents used. A reference to a specific section of Standard Methods is satisfactory

g. Calculations of results.

h. Results of analyses and/or observations.

2. A tabulation shall be maintained showing the following flow data for influent and effluent stations and disposal areas:

a. Total waste flow or volume for each day.

b. Maximum and minimum daily flows for each month.

3. A tabulation reflecting bypassing and accidental waste spills shall be maintained showing information items listed in Sections F -1 and F-2 for each occurrence.

G. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. Spill Reports

If any hazardous substance is discharged in or on any waters of the state, or discharged and deposited where it is, or probably will be discharged in or on any waters of the state, the discharger shall report such a discharge to this Regional Board, at (415) 464-1255 on weekdays during office hours from 8 a.m. to 5 p.m., and to the Office of Emergency Services at (800) 852-7550 during non-office hours. A written report shall be filed with the Regional Board within five (5) working days and shall contain information relative to:

a. nature of waste or pollutant,

b. quantity involved,

c. duration of incident,

d. cause of spilling,

e. Spill Prevention, Control, and Countermeasure Plan (SPCC) in effect, if any,

f. estimated size of affected area,

g. nature of effects (i.e.,fish kill, discoloration of receiving water, etc.),

h. corrective measures that have been taken or planned, and a schedule of these activities, and

i. persons/agencies notified.

2. Reports of Plant Bypass, Treatment Unit Bypass and Permit Violation

In the event the discharger violates or threatens to violate the conditions of the waste discharge requirements and prohibitions or intends to permit a plant bypass or treatment unit bypass due to:

a. Maintenance work, power failures, or breakdown of waste treatment equipment, or

b. accidents caused by human error or negligence, or

c. other causes, such as acts of nature,

The discharger shall notify the Regional Board office by telephone as soon as he or his agents have knowledge of the incident and confirm this notification in writing within 5 working days of the telephone notification. The written report shall include time, date, duration and estimated volume of waste bypassed, method used in estimating volume and person notified of the incident. The report shall include

pertinent information explaining reasons for the noncompliance and shall indicate what steps were taken to prevent the problem from recurring.

In addition, the waste discharger shall promptly accelerate his monitoring program to analyze the discharge at least once every day (Section D.2.h). Such daily analyses shall continue until such time as the effluent limits have been attained, until bypassing stops or until such time as the Executive Officer determines to be appropriate. The results of such monitoring shall be included in the regular Self-Monitoring Report.

3. The discharger shall file a written technical report to be received at least 30 days prior to advertising for bid (or 60 days prior to construction) on any construction project which would cause or aggravate the discharge of waste in violation of requirements; said report shall describe the nature, cost, and scheduling of all action necessary to preclude such discharge. In no case will any discharge of wastes in violation of permit and order be permitted unless notification is made to the Executive Officer and approval obtained from the Regional Board.

4. Self-Monitoring Reports

Written reports shall be filed regularly for each calendar month (unless specified otherwise) and filed no later than the fifteenth day of the following month. The reports shall be comprised of the following:

a. Letter of Transmittal:

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include:

1) Identification of all violations of waste discharge requirements found during the reporting period,

2) Details of the magnitude, frequency, and dates of all violations,

3) The cause of the violations, and

4) Discussion of the corrective actions taken or planned and the time schedule for completion. If the discharger has previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory.

Monitoring reports and the letter transmitting reports shall be signed by a principal executive officer or ranking elected official of the discharger, or by a duly authorized representative of that person.

The letter shall contain the following certification:

"I certify under penalty of law that this document and all attachments are prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

b. Compliance Evaluation Summary

Each report shall be accompanied by a compliance evaluation summary sheet prepared by the discharger. The report format will be prepared following the example shown in APPENDIX A (attached). The discharger will prepare the format using those parameters and requirement limits for influent, effluent and receiving water constituents specified in the permit.

c. Map or Aerial Photograph

A map or aerial photograph shall accompany the report showing sampling and observation station locations.

d. Results of Analyses and Observations

Tabulations of the results from each required analysis specified in Part B by date, time, type of sample, detection limit and station, signed by the laboratory director. The report format will be prepared using the examples shown in APPENDIX B.

1) If the permittee monitors any pollutant more frequently than required by this permit using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Self-Monitoring Report.

2) Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

3) The report shall also identify a table identifying by method number the analytical procedures used for analyses. Any special methods shall be identified and should have prior approval of the Board's Executive Officer.

4) Lab results shall be copied and submitted as an appendix to the regular report.

e. Influent and Effluent Data Summary

Summary tabulations of the data to include for each constituent total number of analyses, maximum, minimum, and average values for each period. The report format will be the NPDES Discharge Monitoring Report, EPA Form 3320-1. Flow data shall be included.

1) The original is to be submitted to EPA:

Regional Administrator
U.S. Environmental Protection Agency
Attention: Enforcement Division (W-5)
215 Fremont Street
San Francisco, CA 94105

2) with a copy to the Regional Board:

Executive Officer
California Regional Water Quality Control Board
San Francisco Bay Region
1111 Jackson Street, Room 6000
Oakland, CA 94607

f. List of Approved Analyses

1) Listing of analyses for which the discharger is approved by the State Department of Health Services.

2) List of analyses performed for the discharger by another approved laboratory (and copies of reports signed by the laboratory director of that laboratory shall also be submitted as part of the report).

3) List of "waived" analyses, as approved by the Executive Officer.

g. Flow Data

1) The tabulation pursuant to Section F-2.

5. Annual Reporting

By January 30 of each year, the discharger shall submit an annual report to the Regional Board covering the previous calendar year. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the report shall contain a comprehensive discussion of the compliance record and the corrective actions taken or planned which may be needed to bring the discharger into full compliance with the waste discharge requirements. The report format will be prepared by the discharger using the examples shown in APPENDIX C (attached) and should be maintained and submitted with each regular self-monitoring report.

PART B

Aratex Services, Inc.

Mr. Hanley Murray
920 Chesnut Street
San Jose, Santa Clara County

I. DESCRIPTION OF SAMPLING STATIONS

All existing and future shallow, intermediate and deep aquifer monitoring and extraction wells as appropriate. See Table 1 (attached) for list of monitoring wells.

II. MISCELLANEOUS REPORTING. None.

III. SCHEDULE OF SAMPLING AND ANALYSIS

The schedule of sampling and analysis shall be that given in Table 1 (attached).

IV. MODIFICATIONS TO PART A.

A. Delete Sections D, E, F.2, G.4.b, G.4.e, and G.4.g.

B. The first paragraph of Section G.4 shall be changed to read as follows:

> Written reports shall be filed with the Regional Board regularly for each calendar quarter (unless otherwise specified) and filed no later than the last day of the following month. The reports shall be compromised of the following:

C. Insert G.4.d.5) to read as follows:

> The EPA Method 8240 analyses shall include tentative identification and semi-quantified concentrations of non-priority pollutant substances of greatest apparent concentration, to be followed by identification and confirmation of peaks of greatest concentration.

I, Roger B. James, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with site cleanup requirements established in Regional Board Order No. 88-087.

2. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger, and revisions will be ordered by the Executive Officer or Regional Board.

3. Was adopted by the Board on May 18, 1988.

MAY 19, 1988
DATE

ROGER B. JAMES
Executive Officer

Attachments: Table I

TABLE 1
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

SAMPLING --> STATION -->	MW-1, MW-2, MW-3, MW-4 MW-5, MW-6, MW-7, MW-8 MW-9, MW-10	
TYPE OF SAMPLE	G	
ANALYSES		
EPA Method 8010/8020 w/Xylenes	Q	
EPA Method 8240 w/Open Scan	1/Y*	
EPA Method 8015 Total Petroleum Hydrocarbons As Gasoline And Stoddard Solvent	Q	
Floating Product Determination	Q	

LEGEND FOR TABLE 1

G = grab sample
Q = quarterly, once in March, June, September and December
1/Y = once per year

* EPA 8010/8020 not required for months when EPA 8240 is performed.